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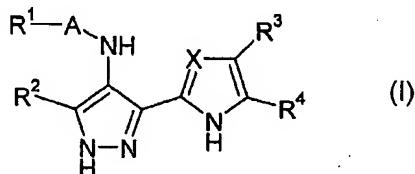
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(54) Title: PHARMACEUTICAL COMPOUNDS



(57) Abstract: The invention provides a compound of the formula (I): or a salt, N-oxide or solvate thereof; wherein X is CR⁵ or N; A is a bond or -(CH₂)_m-(B)_n; B is C=O, NR⁶(C=O) or O(C=O) wherein R⁶ is hydrogen or C₁₋₄ hydrocarbyl optionally substituted by hydroxy or C₁₋₄ alkoxy; m is 0, 1 or 2; n is 0 or 1; R¹ is hydrogen, a carbocyclic or heterocyclic group having from 3 to 12 ring members, or an optionally substituted C₁₋₈ hydrocarbyl group; R² is hydrogen, halogen, methoxy, or a C₁₋₄ hydrocarbyl group optionally substituted by halogen, hydroxyl or methoxy; R³ and R⁴ are the same or different and each is selected from hydrogen, CN, C(O)R⁸, optionally substituted C₁₋₈ hydrocarbyl and carbocyclic or heterocyclic groups having from 3 to 12 ring members; and R⁵ is hydrogen, a group R² or a group R¹⁰ wherein R¹⁰ is selected from halogen, hydroxy, trifluoromethyl, cyano, nitro, carboxy, amino, mono- or di-C₁₋₄ hydrocarbyl amino, carbocyclic and heterocyclic groups having from 3 to 12 ring members; a group R^a-R^b wherein R^a is a bond, O, CO, X¹C(X²), C(X²)X¹, S, SO, SO₂, NR^c, SO₂NR^c or NR^cSO₂; and R^b is selected from hydrogen, carbocyclic and heterocyclic groups having from 3 to 12 ring members, and a C₁₋₈ hydrocarbyl group optionally substituted by one or more substituents selected from hydroxy, oxo, halogen, cyano, nitro, carboxy, amino, mono- or di-C₁₋₄ hydrocarbylamino, carbocyclic and heterocyclic groups having from 3 to 12 ring members and wherein one or more carbon atoms of the C₁₋₈ hydrocarbyl group may optionally be replaced by O, S, SO, SO₂, NR^c, X¹C(X²), C(X²)X¹ or X¹C(X²)X¹; R^c is selected from hydrogen and C₁₋₄ hydrocarbyl; X¹ is O, S or NR^c and X² is =O, =S or =NR^c; and R⁸ is selected from OR¹¹, SR¹¹ and NR¹²R¹³; R¹¹ is selected from optionally substituted C₁₋₈ hydrocarbyl and carbocyclic or heterocyclic groups having from 3 to 12 ring members; and one of R¹² and R¹³ is a group R¹¹ and the other of R¹² and R¹³ is hydrogen or C₁₋₄ alkyl; or R¹² and R¹³ and the nitrogen atom to which they are attached together form a saturated heterocyclic group having from 4 to 7 ring members and containing 1,2 or 3 heteroatom ring members selected from N, O and S. The compounds have activity against cyclin dependent kinases glycogen synthase kinase and Auroa kinases.

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